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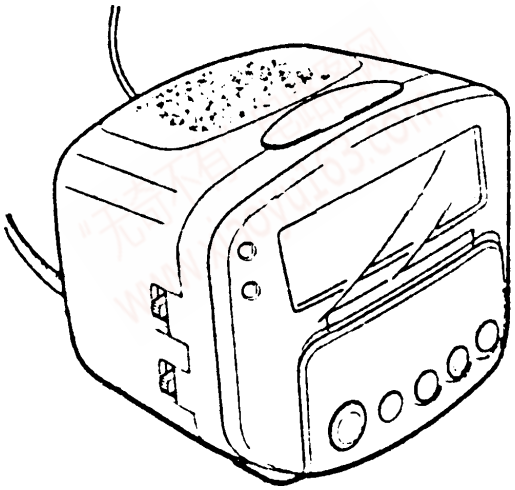
aiwa SERVICE

FR-A270 U(H),EZ(L,H)

FR-A275 U(H),HRJ(L),K(H) EZ(H)



SERVICE MANUAL

RADIO RECEIVER

aiwa

S/M Code No. 09-015-356-7N1

DATA

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ACCESSORIES/PACKAGE LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-RUB-905-010		IB,EZ(EGF)C 270<A270 EZLC,A270 EZHC>
1	8B-RUA-905-010		IB,EZ(EGF)C 275<A275 EZHC>
1	8B-RUB-907-010		IB,EZ(PHNCZ)C 270<A270 EZLC,A270 EZHC>
1	8B-RUA-907-010		IB,EZ(PHNCZ)C 275<A275 EZHC>
1	8B-RUB-906-010		IB,EZ(SID)C 270<A270 EZLC,A270 EZHC>
1	8B-RUA-906-010		IB,EZ(SID)C 275<A275 EZHC>
1	8B-RUA-902-010		IB,HR(ECC)C 275<A275 HRJLC>
1	8B-RUA-908-010		IB,K(E)C 277<A275 KHC>
1	8B-RUB-901-010		IB,U(3L)C 270<A270 UHC>
1	8B-RUA-901-010		IB,U(3L)C 275<A275 UHC>

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SPECIFICATIONS

FRA270U MODEL

Power source	AC 120 V, 60 Hz
Output	280 mW (EIAJ)
Power consumption	4 W
Speaker	57 mm, 8 ohms
Frequency range	FM: 87.5 – 108 MHz
	AM: 530 – 1,710 kHz
Antennas	FM wire antenna
	Ferrite bar antenna for AM
Maximum outside dimensions (W × H × D)	
	136.5 × 112.5 × 120.5 mm
	(5 3/8 × 4 1/2 × 4 3/4 in.)
Weight	Approx. 590 g (1.3 lbs.)

- Design and specifications are subject to change without notice.

FRA270EZ MODEL

Power source	AC 230 V, 50 Hz
Output	280 mW (EIAJ)
Power consumption	4 W
Speaker	57 mm, 8 ohms
Frequency range	FM: 87.5 – 108 MHz
	AM: 530 – 1,605 kHz
Antennas	FM wire antenna
	Ferrite bar antenna for AM
Maximum outside dimensions (W × H × D)	
	136.5 × 112.5 × 120.5 mm
Weight	Approx. 610 g

- Design and specifications are subject to change without notice.

FRA275U MODEL

Power source	AC 120 V, 60 Hz
Output	280 mW (EIAJ)
Power consumption	4 W
Speaker	57 mm, 8 ohms
Frequency range	FM: 87.5 – 108 MHz
	AM: 530 – 1,710 kHz
Antennas	FM wire antenna
	Ferrite bar antenna for AM
Maximum outside dimensions (W × H × D)	
	136.5 × 112.5 × 120.5 mm
	(5 3/8 × 4 1/2 × 4 3/4 in.)
Weight	Approx. 600 g (1.3 lbs.)

- Design and specifications are subject to change without notice.

FRA275HRJ MODEL

Power source	AC 110 – 120 V/220 – 240 V
	50/60 Hz, selectable
Output	280 mW (EIAJ)
Power consumption	4 W
Speaker	57 mm, 8 ohms
Frequency range	FM: 87.5 – 108 MHz
	AM: 530 – 1,605 kHz
Antennas	FM wire antenna
	Ferrite bar antenna for AM
Maximum outside dimensions (W × H × D)	
	136.5 × 112.5 × 120.5 mm
Weight	Approx. 620 g

- Design and specifications are subject to change without notice.

FRA275K, EZ MODEL

Power source	AC 230 V, 50 Hz
Output	280 mW (EIAJ)
Power consumption	4 W
Speaker	57 mm, 8 ohms
Frequency range	FM: 87.5 – 108 MHz
	AM: 530 – 1,605 kHz
Antennas	FM wire antenna
	Ferrite bar antenna for AM
Maximum outside dimensions (W × H × D)	
	136.5 × 112.5 × 120.5 mm
Weight	Approx. 620 g

- Design and specifications are subject to change without notice.

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ELECTRICAL MAIN PARTS LIST-1/2

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-200-010		IC LM8562
			<EXCEPT A270 UHC,A270 EZLC,A270 EZHC>
	87-A21-201-010		IC,LM8560N
			<A270 UHC,A270 EZLC,A270 EZHC>
	8B-RUA-611-010		IC,KA22426D
TRANSISTOR			
	89-318-155-010		TR,2SC1815GR
	89-110-155-080		TR,1015GR
DIODE			
	87-070-345-080		DIODE,IN4148
	87-A40-398-080		DIODE,1N4001
MAIN C.B			
C4	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C5	87-A11-827-080		CAP,CER 22P-50 J RH
C7	87-A11-075-080		CAP,TC U 27P-50 C CH<A275 UHC,A270 UHC>
C8	87-A10-292-080		CAP,M 5600P-50 J
			<EXCEPT A270 UHC,A270 EZLC,A270 EZHC>
C8	87-A10-293-080		CAP,M 6800P-50 J
			<A270 UHC,A270 EZLC,A270 EZHC>
C10	87-012-348-080		CAP,CER 0.1-50 F
			<EXCEPT A270 UHC,A270 EZLC,A270 EZHC>
C10	87-012-372-080		CAP,CER 1000P-2K
			<A270 UHC,A270 EZLC,A270 EZHC>
C11	87-A10-577-080		CAP,CER 0.022-50 Z YF
C12	87-010-401-010		CAP,E 1-50 M SME
C13	87-010-377-010		CAP,E 3300-10 M SME
C14	87-012-348-080		CAP,CER 0.1-50 F
C15	87-010-404-010		CAP,E 4.7-50 M SME
			<A270 UHC,A270 EZLC,A270 EZHC>
C16	87-010-267-080		CAP,E 47-10 105 KM
C18	87-010-391-010		CAP,E 10-35 M SME
			<EXCEPT A270 UHC,A270 EZLC,A270 EZHC>
C19	87-010-131-080		CAP,E 0.47-50 BP
C20	87-A10-576-080		CAP,CER 0.01-50 Z YF
C22	87-012-348-080		CAP,CER 0.1-50 F
			<EXCEPT A270 UHC,A270 EZLC,A270 EZHC>
C22	87-010-401-010		CAP,E 1-50 M SME
			<A270 UHC,A270 EZLC,A270 EZHC>
C23	87-A10-577-080		CAP,CER 0.022-50 Z YF
C25	87-012-348-080		CAP,CER 0.1-50 F
			<EXCEPT A270 UHC,A270 EZLC,A270 EZHC>
C26	87-010-064-080		CAP,E 100-10
C27	87-A10-576-080		CAP,CER 0.01-50 Z YF
C28	87-A10-576-080		CAP,CER 0.01-50 Z YF
C29	87-A10-576-080		CAP,CER 0.01-50 Z YF
C30	87-012-348-080		CAP,CER 0.1-50 F
C31	87-010-377-010		CAP,E 3300-10 M SME
C32	87-010-101-080		CAP, ELECT 220-16
C33	87-010-391-010		CAP,E 10-35 M SM
C36	87-012-348-080		CAP,CER 0.1-50 F
C37	87-A10-576-080		CAP,CER 0.01-50 Z YF
			<A270 UHC,A270 EZLC,A270 EZHC>
C37	87-012-348-080		CAP,CER 0.1-50 F
			<EXCEPT A270 UHC,A270 EZLC,A270 EZHC>
C38	87-012-348-080		CAP,CER 0.1-50 F
C39	87-A10-576-080		CAP,CER 0.01-50 Z YF
			<A270 UHC,A270 EZLC,A270 EZHC>
C43	87-A10-576-080		CAP,CER 0.01-50 Z YF
			<A275 UHC,A275 EZHC>
C43	87-012-372-080		CAP,CER 1000P-2K<A275 KHC,A275 HRJLC>
C44	87-010-545-010		CAP,E 0.22-50 M SME
			<EXCEPT A270 UHC,A270 EZLC,A270 EZHC>
C45	87-012-348-080		CAP,CER 0.1-50 F
CF1	87-A91-162-010		FLTR,PFS450A7
CF2	87-A90-991-010		FLTR,SFE10.7 MS239-A
CN1	8A-RUA-634-010		SOCKET,2P BATTERY
L1	8B-RUA-608-010		COIL,FM RF 3T5
L2	8B-RUA-608-010		COIL,FM RF 3T5
L3	8B-RUA-607-010		COIL,FM OSC 2T5
L5	8B-RUA-603-010		COIL,AM ANT
L6	8B-RUA-605-010		COIL,AM OSC
L7	87-003-136-010		COIL,100UH K LAL04
LD1	8B-RUA-602-010		LED,DISPLAY0.9 INCH 12H GREEN
			<A275 UHC,A275 HRJLC,A270 UHC>
LD1	8B-RUA-622-010		LED,DISPLAY0.9 INCH 24H GREEN
			<EXCEPT A275 UHC,A275 HRJLC,A270 UHC>
LED1	8B-RUA-601-010		LED,DIA 3 RED
LED2	8B-RUA-601-010		LED,DIA 3 RED
			<EXCEPT A270 UHC,A270 EZLC,A270 EZHC>
⚠PT	8B-RUA-615-010		PT,EZ 230V W/AC CORD
			<EXCEPT A275 UHC,A275 HRJLC,A270 UHC>
⚠PT	8B-RUA-616-010		PT,HL 115/230V W/O ACCORD<A275 HRJLC>
⚠PT	8B-RUA-614-010		PT,U 120V W/AC CORD<A275 UHC,A270 UHC>
PVC1	8B-RUA-621-010		TUN-CAP,20P-126P-126P TONG TAT
			<EXCEPT A275 UHC,A270 UHC>
PVC1	8B-RUA-620-010		TUN-CAP,20P-160P-82P TONG TAT
			<A275 UHC,A270 UHC>
SW1	8B-RUA-610-010		SW,SLIDE 2P2T SK22F10G8
SW2	8B-RUA-625-010		SW,TACT TS-1150HV
SW3	8B-RUA-626-010		SW,TACT DOME8-TDWA-300
SW4	8B-RUA-626-010		SW,TACT DOME8-TDWA-300
SW5	8B-RUA-626-010		SW,TACT DOME8-TDWA-300
SW6	8B-RUA-626-010		SW,TACT DOME8-TDWA-300
SW7	8B-RUA-626-010		SW,TACT DOME8-TDWA-300
SW8	8B-RUA-612-010		SW,SLIDE 2P4T SK24D01G8
SW9	8B-RUA-611-010		SW,SLIDE 4P3T SK43D03G6
			<A270 UHC,A270 EZLC,A270 EZHC>
⚠SW10	8B-RUA-623-010		SW,SL SS-12F16G4<A275 HRJLC>
SW11	8B-RUA-624-010		SW,SL SS-12J01<A275 HRJLC>
T2	8B-RUA-604-010		COIL,IFT FM DES
T3	8B-RUA-606-010		COIL,AM IFT 450
VR1	8B-RUA-609-010		VR,RTRY 50K-BF-12NPD

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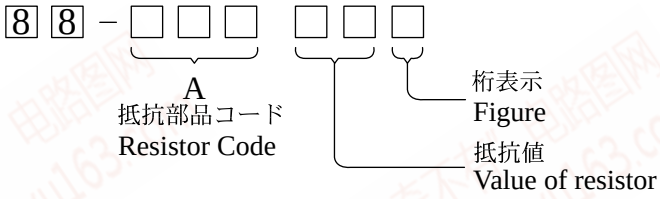
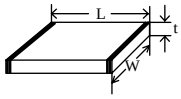
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード ：A Resistor Code：A
1/16W	1005	±5%	CJ		1.0	0.5	0.35	104
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

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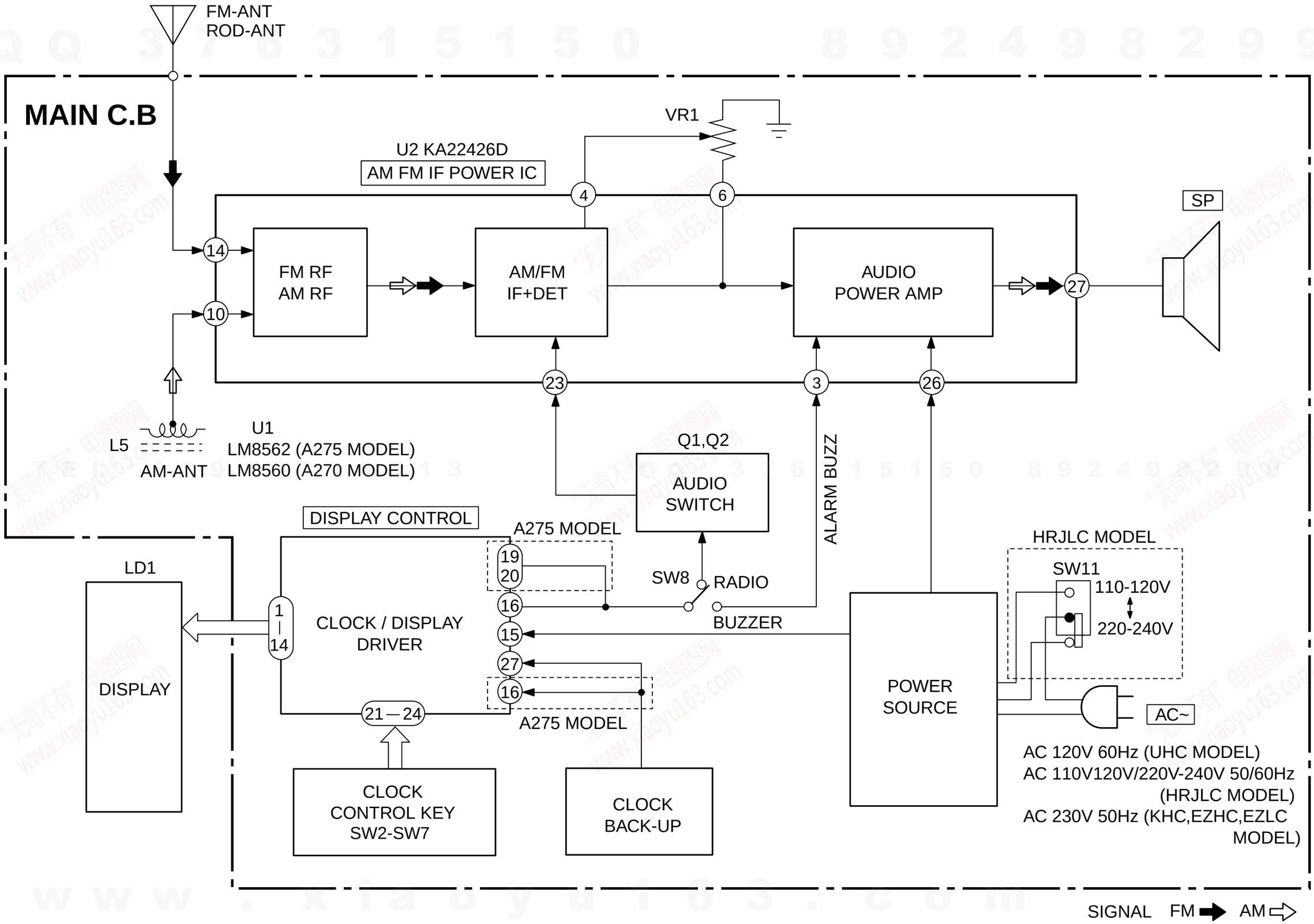
BLOCK DIAGRAM-1/1



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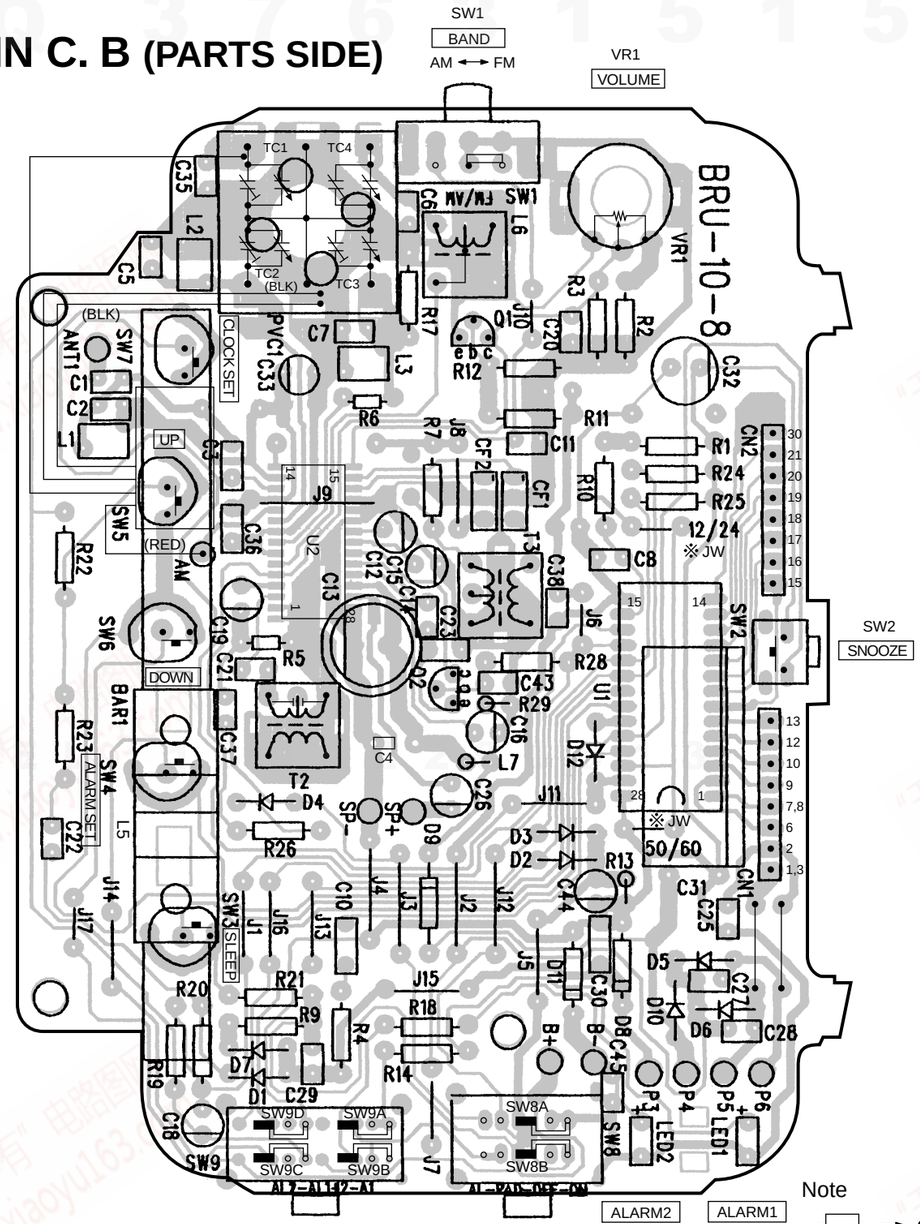
MAIN C. B (PARTS SIDE)



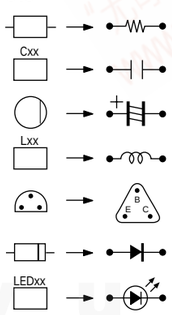
※ JW

SELECT \ JW	12/24H	50/60Hz	MODEL
50Hz	–	JW	EXCEPT
60Hz	–	No Mount	HRJLC MODEL
12H	No Mount	–	ALL MODEL
24H	JW	–	ALL MODEL

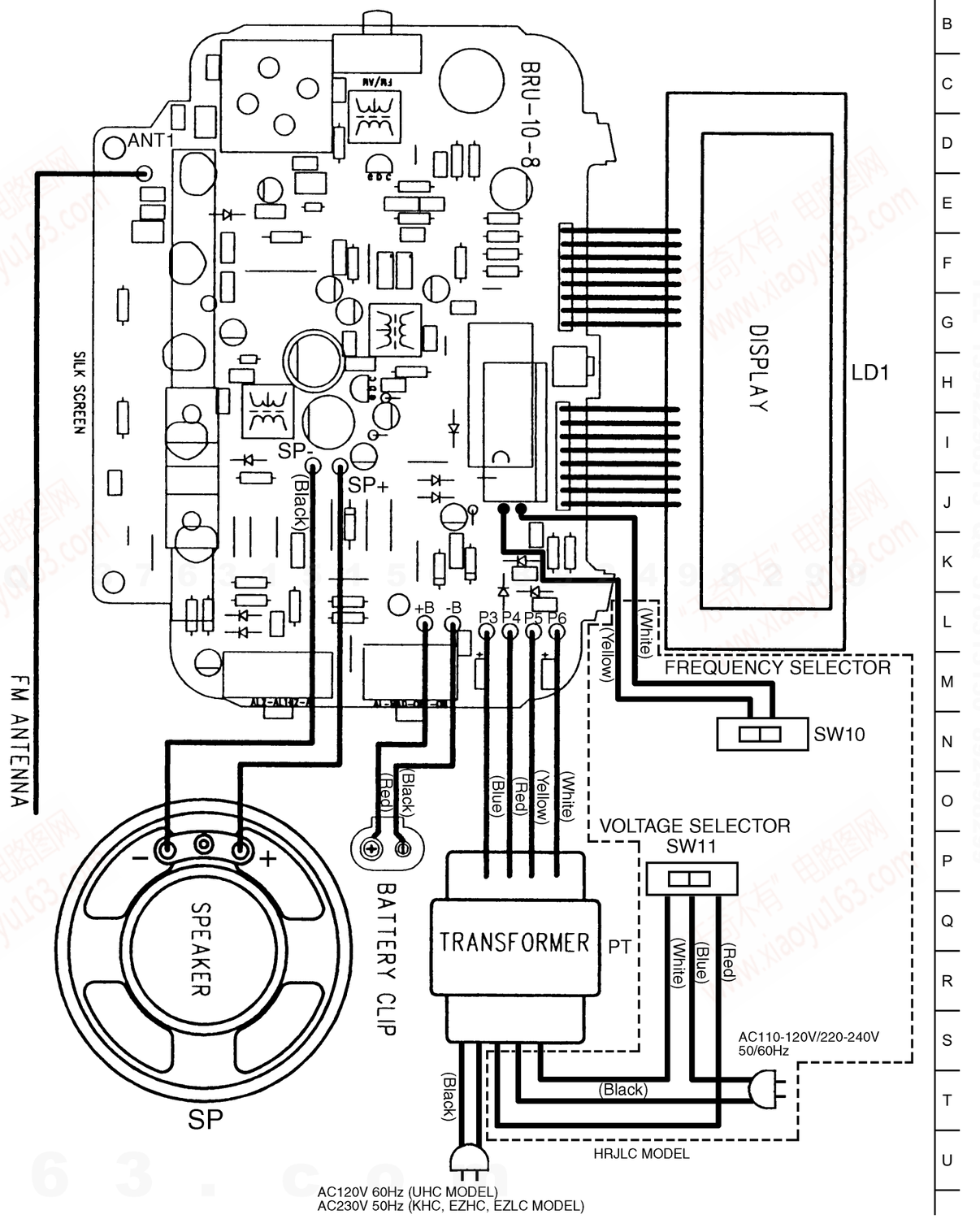
2 ⟷ 1+2 ⟷ 1
ALARM
SW9

BUZZER ⟷ RADIO ⟷ STAND BY ⟷ ON
POWER
SW8

Note



MAIN C.B (PARTS SIDE)



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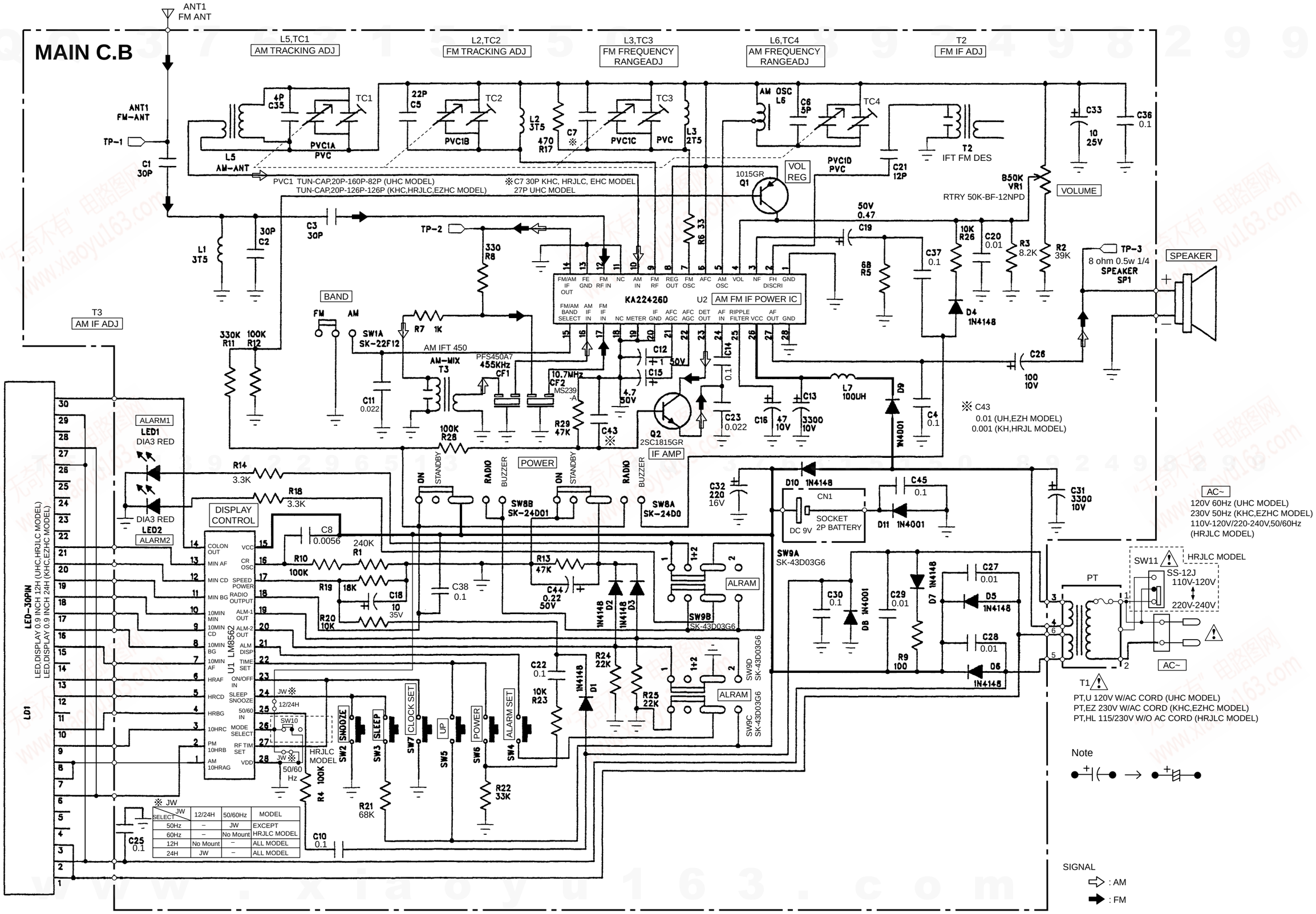
SCHEMATIC DIAGRAM-1/2 (A275 MODEL)



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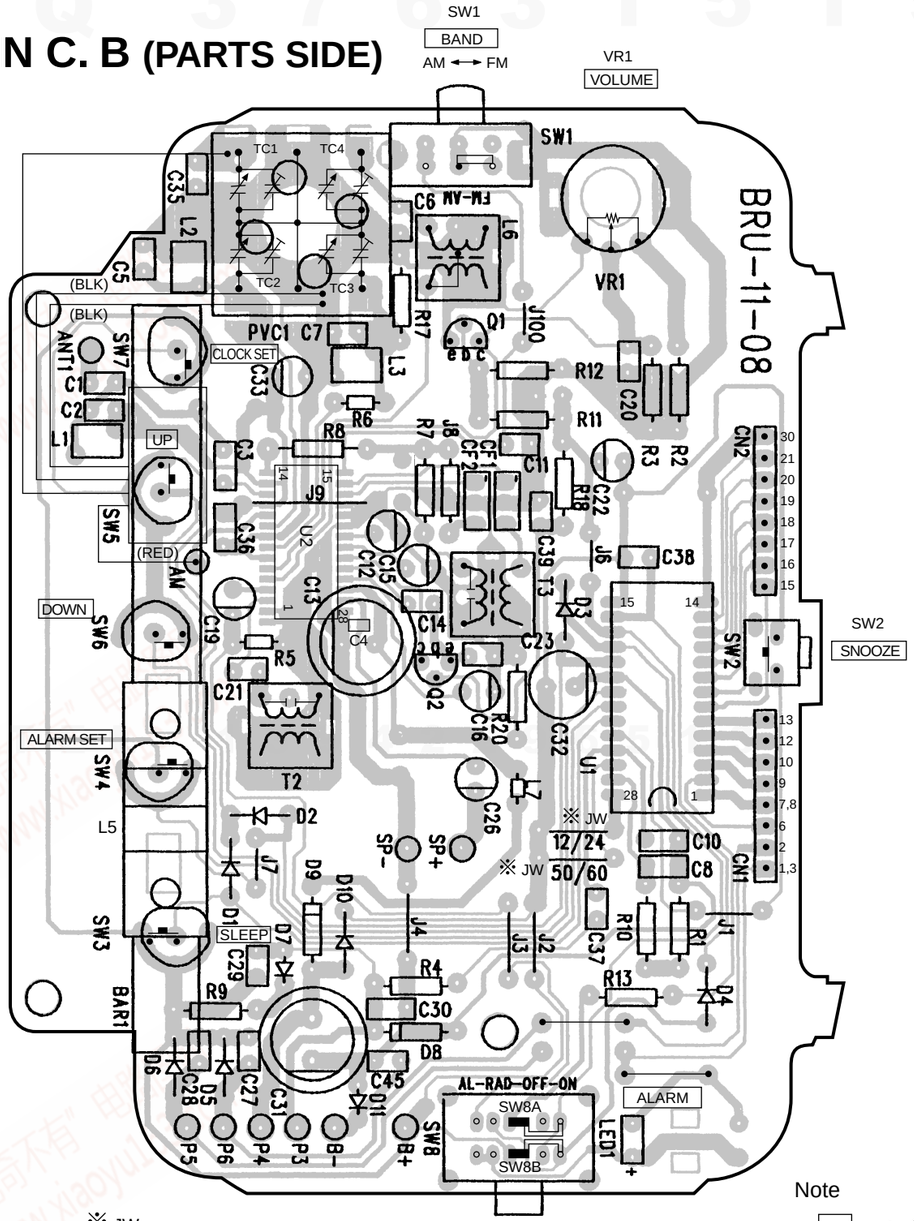
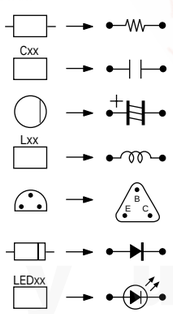
MAIN C. B (PARTS SIDE)



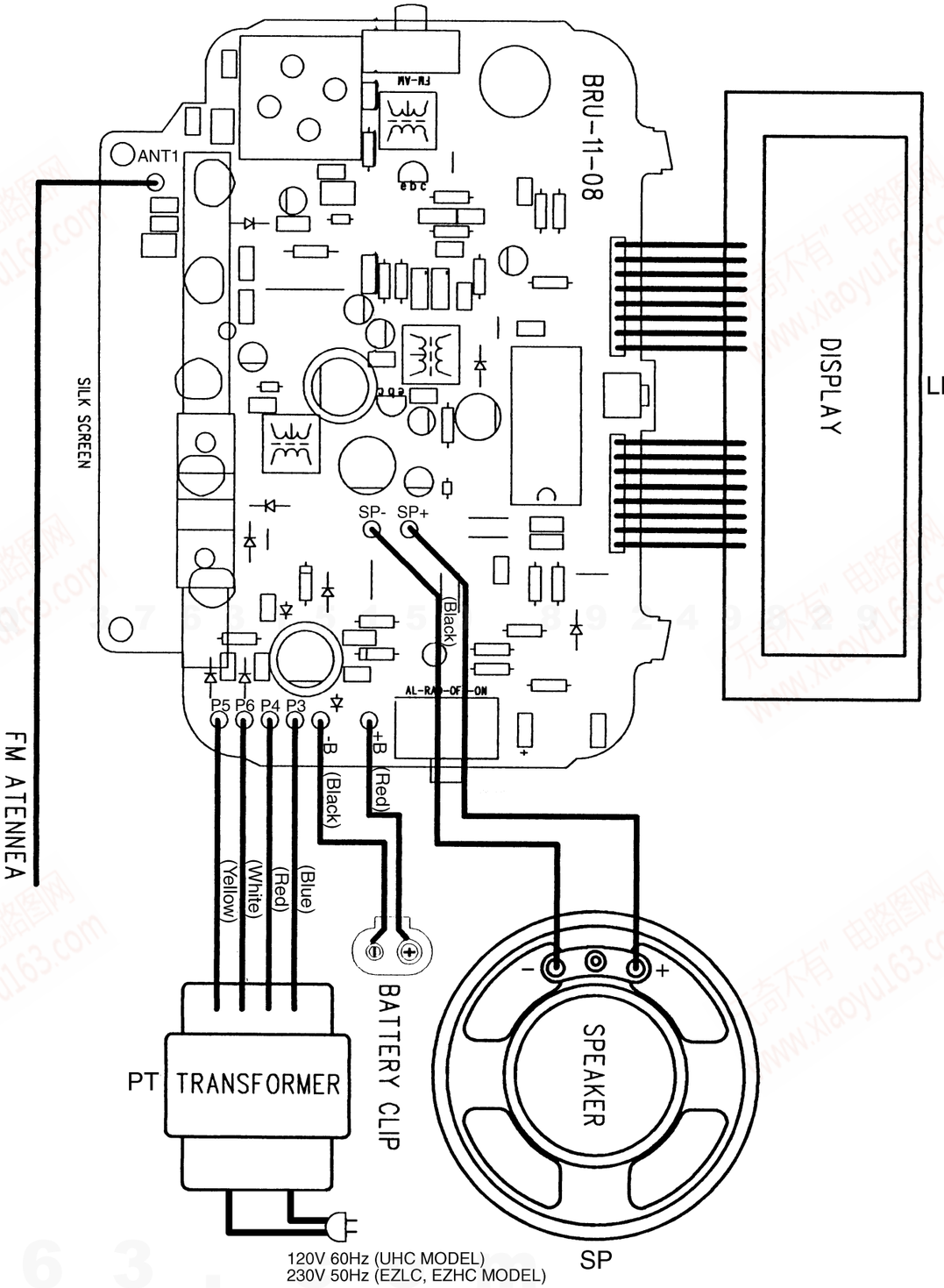
※ JW

JW / SELECT	12/24	50/60
50Hz	–	JW
60Hz	–	No Mount
12H	No Mount	–
24H	JW	–

Note



MAIN C.B (PARTS SIDE)



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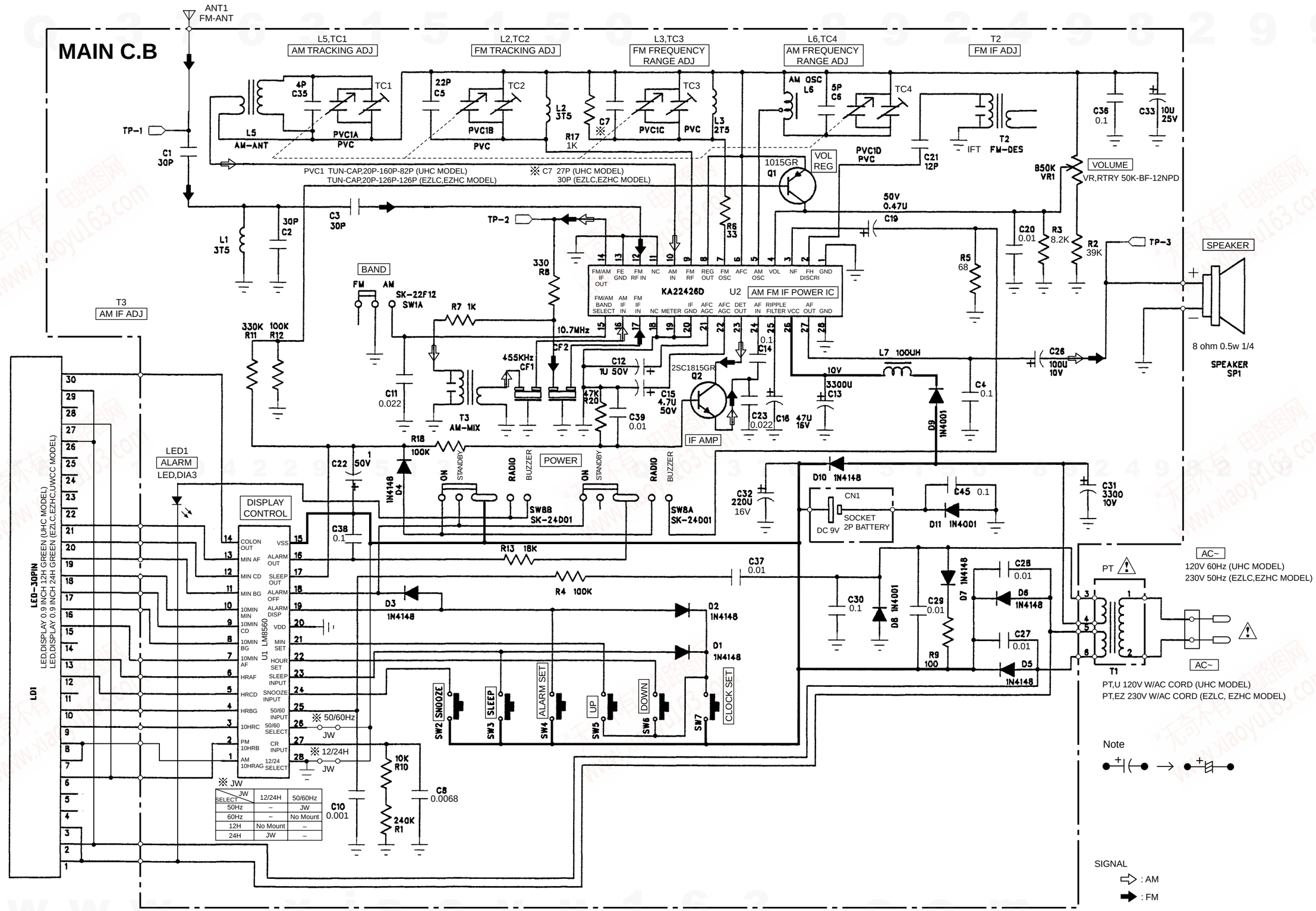
SCHEMATIC DIAGRAM-2/2 (A270 MODEL)



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TRANSISTOR ILLUSTRATION-1/1

2SC1815GR
1015GR

QQ 376315150 892498299
TEL 13942296513
www.xiaoyu163.com

http://www.xiaoyu163.com

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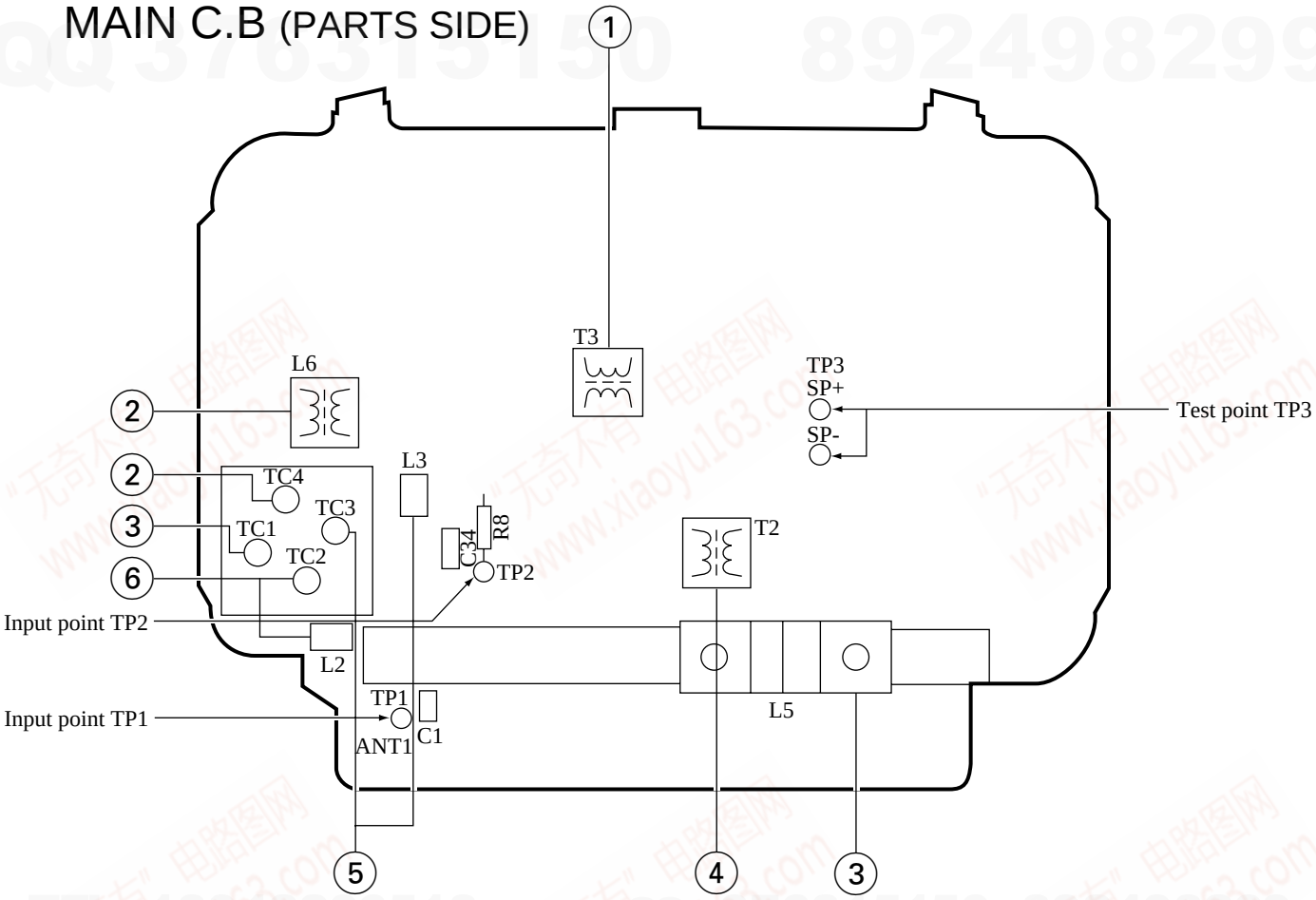
MAIN C.B (PARTS SIDE)



< TUNER SECTION >

1. AM IF Adjustment
   Settings: • Test point TP3
   • Adjustment location: T3
   T3 ..... 450kHz

2. AM Frequency Range Adjustment
   Settings: • Test point TP3
   • Adjustment location: L6, TC4
   TC4 ..... 1635kHz (EXCEPT UHC MODEL)
   TC4 ..... 1750kHz (UHC MODEL)
   L6 ..... 515kHz

3. AM Tracking Adjustment
   Settings: • Test point TP3
   • Adjustment location: TC1, L5
   TC1 ..... 1400kHz (EXCEPT UHC MODEL)
   TC1 ..... 1500kHz (UHC MODEL)
   L5 ..... 600kHz

4. FM IF Adjustment
   Settings: • Input point TP2
   • Test point TP3
   • Adjustment location: T2
   T2 ..... 10.7MHz

5. FM Frequency Range Adjustment
   Settings: • Input point TP1
   • Test point TP3
   • Adjustment location: TC3, L3
   TC3 ..... 109MHz (EXCEPT EZHC MODEL)
   TC3 ..... 108.3MHz (EZHC MODEL)
   L3 ..... 87MHz (EXCEPT EZHC MODEL)
   L3 ..... 87.4MHz (EZHC MODEL)

6. FM Tracking Adjustment
   Settings: • Input point TP1
   • Test point TP3
   • Adjustment location: TC2, L2
   TC2 ..... 106MHz
   L2 ..... 90 MHz

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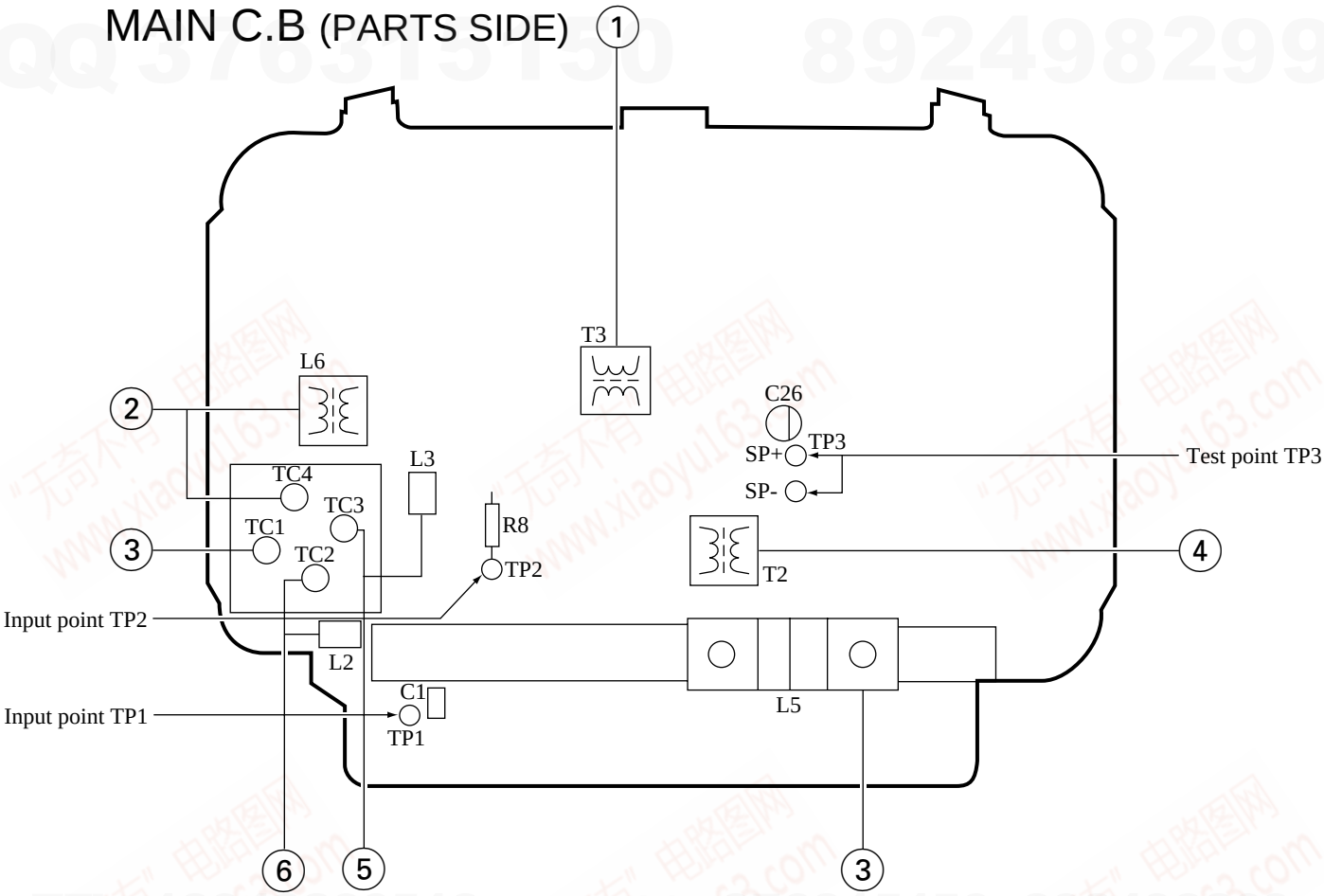

< TUNER SECTION >

1. AM IF Adjustment
   Settings: • Test point TP3
   • Adjustment location: T3
   T3 ..... 450kHz

2. AM Frequency Range Adjustment
   Settings: • Test point TP3
   • Adjustment location: TC4, L6
   TC4 ..... 1635kHz (EXCEPT UHC MODEL)
   TC4 ..... 1750kHz (UHC MODEL)
   L6 ..... 515kHz

3. AM Tracking Adjustment
   Settings: • Test point TP3
   • Adjustment location: TC1, L5
   TC1 ..... 1400kHz (EXCEPT UHC MODEL)
   TC1 ..... 1500kHz (UHC MODEL)
   L5 ..... 600kHz

4. FM IF Adjustment
   Settings: • Input point TP2
   • Test point TP3
   • Adjustment location: T2
   T2 ..... 10.7MHz

5. FM Frequency Range Adjustment
   Settings: • Input point TP1
   • Test point TP3
   • Adjustment location: TC3, L3
   TC3 ..... 109MHz (UHC MODEL)
   TC3 ..... 108.3MHz (EZLC, EZHC MODEL)
   L3 ..... 87MHz (UHC MODEL)
   L3 ..... 87.4MHz (EZLC, EZHC MODEL)

6. FM Tracking Adjustment
   Settings: • Input point TP1
   • Test point TP3
   • Adjustment location: TC2, L2
   TC2 ..... 106MHz
   L2 ..... 90MHz

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IC & TRANSISTOR DC VOLTAGE

U1 LM8560N (A270MODEL)

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
VOLT.	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC

PIN NO.	15	16	17	18	19	20	21	22	23	24	25	26	27	28
VOLT.	10.5	10.5	5.2	0.1	0	0	3	3	3	3	1.2	10.5	4	0

U1 LM8562 (A275MODEL)

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
VOLT.	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC

PIN NO.	15	16	17	18	19	20	21	22	23	24	25	26	27	28
VOLT.	10	9.8	0	0	0	0	0	0	0	0	0.6	0	7.4	0

U2 KA22426D (ALL MODEL)

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
AM	0	5.7	3.1	1.2	1.25	1.25	1.25	1.25	1.25	1.25	0	0	0	0.05
FM	0	5.2	3.1	1.2	1.25	1.25	1.25	1.25	1.25	1.25	0	0.65	0	0.8

PIN NO.	15	16	17	18	19	20	21	22	23	24	25	26	27	28
AM	0	0	0	0	0	0	1	0.8	1.1	0	5.4	6.4	3.2	0
FM	1	0	1	0	0	0	0.8	1	1.1	0	5.3	6.2	3.1	0

TRANSISTOR (ALL MODEL)

PIN NO.	E	B	C
Q1 (1015GR)	1.25	0.7	1.2
Q2 (2SC1815GR)	1.3	1.8	1.3

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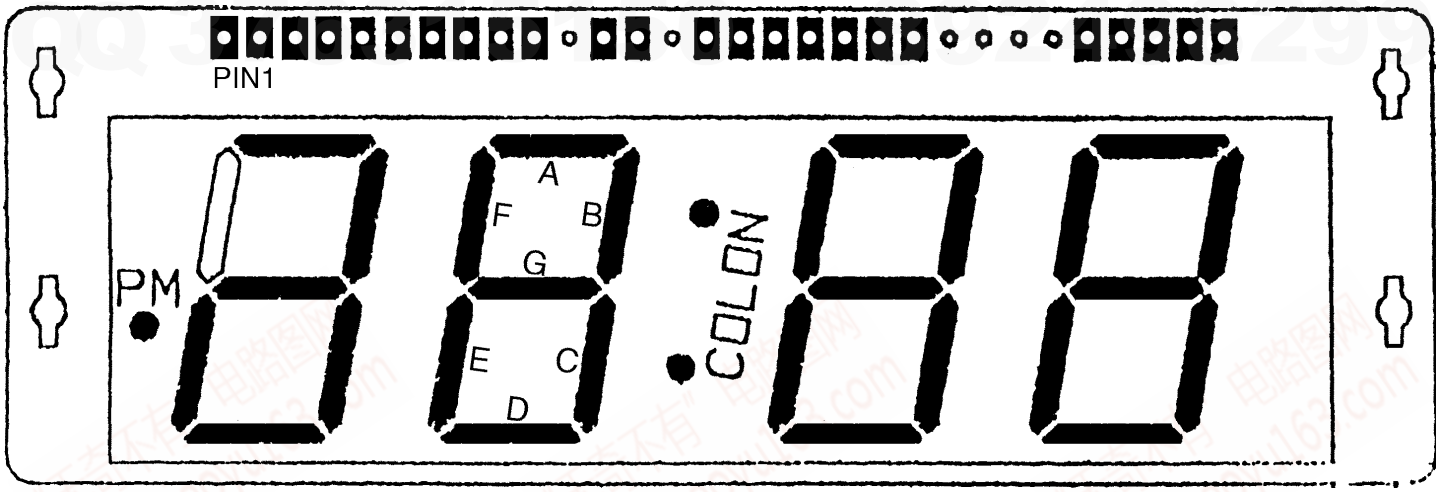
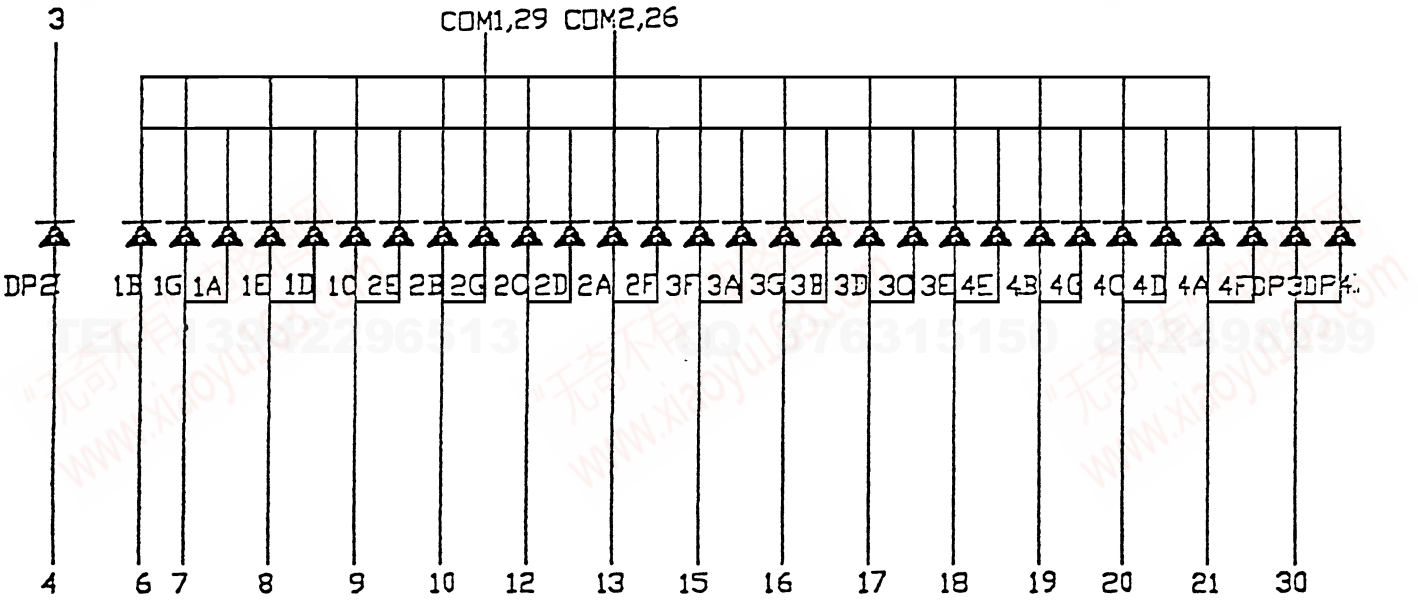
FL (LED, DISPLAY 0.9 INCH 12H/24H GREEN) GRID ASSIGNMENT/ANODE CONNECTION-1/1

GRID ASSIGNMENT





NC: 5,11,14,22,23,24,25,27,28

ANODE CONNECTION

PIN NO.	Command	PIN NO.	Command	PIN NO.	Command	PIN NO.	Command
COM1	Common Cathode	9	Anode 1C,2E	17	Anode 3C,3D	25	NC
COM2	Common Cathode	10	Anode 2B,2G	18	Anode 3E,4E	26	Common Cathode
3	Cathode PM	11	NC	19	Anode 4B,4G	27	NC
4	Anode PM	12	Anode 2C,2D	20	Anode 4C,4D	28	NC
5	NC	13	Anode 2A,2F	21	Anode 4A,4F	29	Common Cathode
6	Anode 1B	14	NC	22	NC	30	Anode COLON
7	Anode 1A,1G	15	Anode 3A,3F	23	NC		
8	Anode 1D,1E	16	Anode 3B,3G	24	NC		

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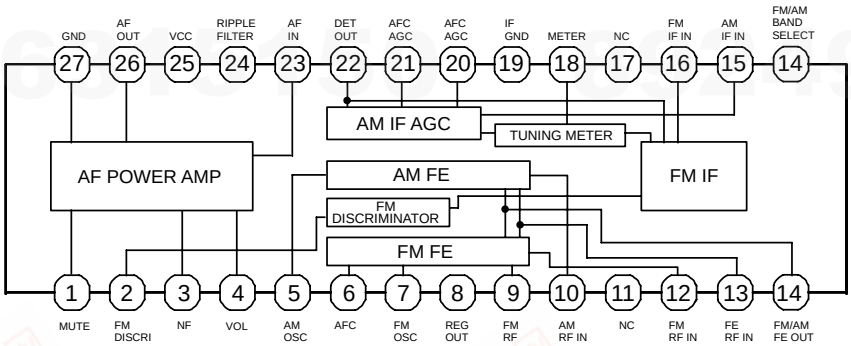
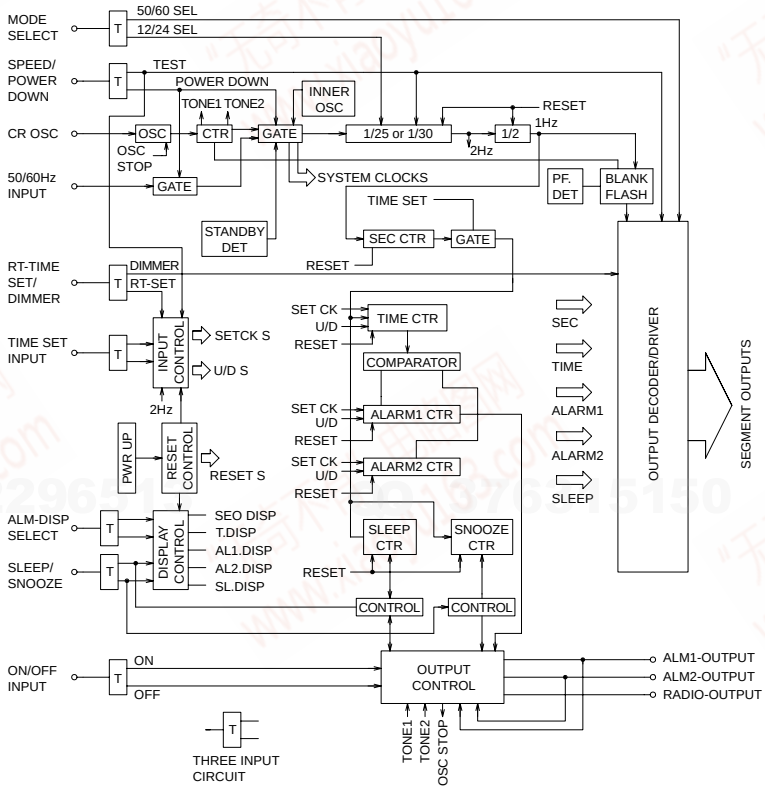
IC BLOCK DIAGRAM-1/1

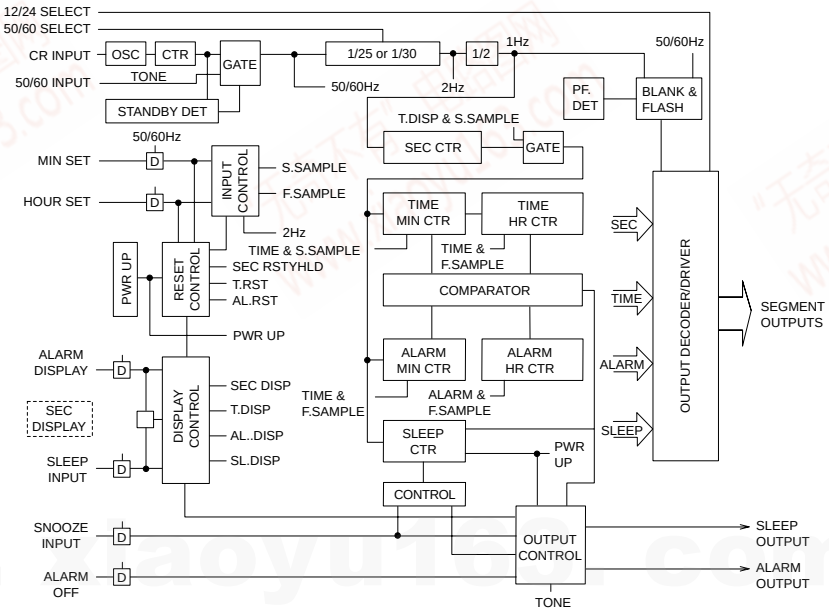
IC, KA22426D



IC, LM8562



IC, LM8560N



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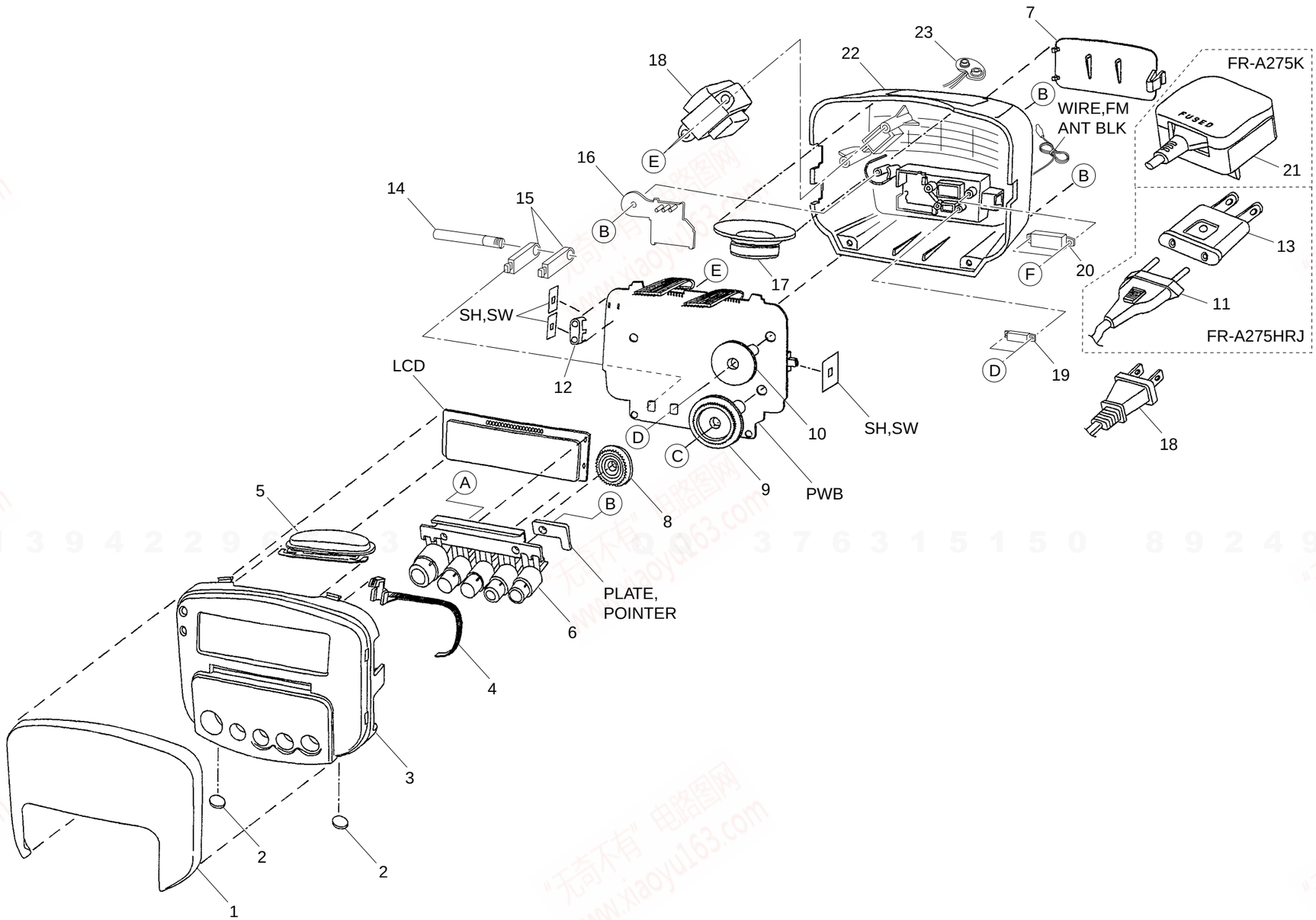
MECHANICAL EXPLODED VIEW-1/1



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MECHANICAL PARTS LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-RUB-006-010		PANEL,FRONT EZ L<FR-A270 EZLC>
1	8B-RUB-005-010		PANEL,FRONT U H<FR-A270 UHC,FR-A270 EZHC>
1	8B-RUA-003-010		PANEL,FRONT U H<FR-A275 UHC,FR-A275 KHC,FR-A275 EZHC>
1	8B-RUA-051-010		WINDOW,FRONT HR L<FR-A275 HRJLC>
2	8B-RUE-034-010		FOOT,RUBBER
3	8B-RUA-041-010		CABI,FRONT EZ H<FR-A275 EZHC>
3	8B-RUB-030-010		CABI,FRONT EZ H<FR-A270 EZHC>
3	8B-RUA-042-010		CABI,FRONT HRJL<FR-A275 HRJLC>
3	8B-RUA-039-010		CABI,FRONT K H<FR-A275 KHC>
3	8B-RUB-001-010		CABI,FRONT U H<FR-A270 UHC,FR-A270 EZLC>
3	8B-RUA-001-010		CABI,FRONT U H<FR-A275 UHC>
4	8B-RUA-013-010		POINTER,DIAL
5	8B-RUA-009-010		BTN,SNOOZE<EXCEPT FR-A270 UHC,FR-A270 EZLC,FR-A270 EZHC>
5	8B-RUB-008-010		BTN,SNOOZE U H<FR-A270 UHC,FR-A270 EZLC,FR-A270 EZHC>
6	8B-RUA-054-010		BTN,FUNCTION
7	8B-RUA-008-010		COVER,BATTERY
8	8B-RUA-103-010		GEAR,DIAL
9	8B-RUA-011-010		KNOB,RTRY TUNING
10	8B-RUA-010-010		KNOB,RTRY VOLUME
⚠ 11	8A-RUA-644-010		CORD,AC POWERVDE KENIC<FR-A275 HRJLC>
12	8B-RUA-012-010		HLDR,LED
13	87-A91-017-010		PLUG,CONVERSION JT-0476<FR-A275 HRJLC>
14	8B-RUA-603-010		COIL,AM ANT
15	8B-RUA-101-010		HLDR,BER ANT
16	8B-RUA-102-010		COVER, POWER CORD
17	8B-RUA-613-010		SPKR,57 8OHM 0.5W
⚠ 18	8B-RUA-615-010		PT,EZ 230V W/AC CORD<EXCEPT FR-A275 UHC,FR-A275 HRJLC, FR-A270 UHC>
⚠ 18	8B-RUA-616-010		PT,HL 115/230V W/O ACCORD<FR-A275 HRJLC>
⚠ 18	8B-RUA-614-010		PT,U 120V W/AC CORD<FR-A275 UHC,FR-A270 UHC>
⚠ 19	8B-RUA-623-010		SW,SL SS-12F16G4
20	8B-RUA-624-010		SW,SL SS-12J01
⚠ 21	87-099-811-010		PLUG,ADPTR CONV(K)<FR-A275 KHC>
22	8B-RUB-003-010		CABI,REAR EZ L<FR-A270 EZLC,FR-A270 EZHC>
22	8B-RUA-043-010		CABI,REAR HRJL<FR-A275 HRJLC>
22	8B-RUA-040-010		CABI,REAR K H<FR-A275 KHC>
22	8B-RUA-002-010		CABI,REAR U H<FR-A275 UHC,FR-A275 EZHC>
22	8B-RUB-002-010		CABI,REAR U H<FR-A270 UHC>
23	8A-RUA-634-010		SOCKET,2P BATTERY
A	87-751-095-410		VT+2+3-8 W/O SLOT
B	87-751-097-410		VT2+3-12 W/O SLOT
C	87-751-073-410		VT+2+2.6-6 W/O SLOT
D	87-264-529-310		V+1.7-4
E	87-751-095-410		VT2+3-8 W/O SLOT
F	87-B10-368-010		V+2.6-5.5 W/O CR

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COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green		

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